

CONTENTS

PRESIDENTIAL ADDRESS	PAGE
COATES, JOHN, Elliptic curves with complex multiplication and Iwasawa theory	321
SURVEY ARTICLES	
HERRERO, DOMINGO A., Triangular operators	513
PARRY, WILLIAM, Notes on coding problems for finite state processes	1
NOTES AND PAPERS	
ALPERN, STEVE and PRASAD, V. S., Typical recurrence for lifts of mean rotation zero annulus homeomorphisms	477
APPLEBAUM, DAVID, Brownian motion on $SO(3)$ factorises in Fock space	493
APTER, ARTHUR W., A note on strong compactness and supercompactness	113
BALLICO, EDOARDO, On the tangentially degenerate projective varieties	128
BASTON, R. J., Conformally invariant operators: singular cases	153
BECK, JÓZSEF, Flat polynomials on the unit circle—note on a problem of Littlewood	269
BEHRENDT, GERHARD, Equivalence systems on sets of binary sequences	219
BERKOVITS, JUHA, Topological degree and multiplication theorem for a class of nonlinear mappings	596
BERKOVITS, JUHA and MUSTONEN, VESA, An application of the topological degree theory for semilinear equations with strongly monotone nonlinearities	470
BERRY, D. and MESTEL, B. D., Wandering intervals for Lorenz maps with bounded nonlinearity	183
BETKER, TH., Löwner chains and Hardy spaces	367
BETKER, TH., Univalence criteria and Löwner chains	563
BONK, MARIO, Distortion estimates for Bloch functions	454
CHEN, SHAOZHU, Asymptotic integration of the principal solution of a second-order differential equation	457
CONDER, MARSTON, The symmetric genus of the Mathieu groups	445
DOWSON, H. R., Solution to a problem of Lior Tzafriri	285
DRÄXLER, PETER, Auslander-Reiten quivers of algebras whose indecomposable modules are bricks	141
EELLS, J. and FERREIRA, M. J., On representing homotopy classes by harmonic maps	160
EVANS, W. D. and RÁKOSNÍK, J., Anisotropic Sobolev spaces and a quasidistance function	59
EVESON, S. P., An integral equation arising from a problem in mathematical biology	293
FERREIRA, M. J., <i>see</i> Eells, J.	
GARDINER, STEPHEN J., A short proof of Burdzy's theorem on the angular derivative	575
GARLING, D. J. H., Hardy martingales and the unconditional convergence of martingales	190
GHAHRAMANI, F., Isomorphisms between semisimple weighted measure algebras	465
GILLET, H., MAZUR, B. and SOULÉ, C., A note on a classical theorem of Blichfeldt	131
GOH, WILLIAM M. Y. and SCHMUTZ, ERIC, The expected order of a random permutation	34
GREENLEES, J. P. C., Equivariant functional duals and completions at ideals of the Burnside ring	163
GROEMER, H. and SCHNEIDER, R., Stability estimates for some geometric inequalities	67
HART, R., Glued algebras and differential operators	351
HEWITT, P. R., The paucity of 'large' solvable groups	224
IZUCHI, KEIJI, Orbits in the maximal ideal space of H^∞	587
JIANG, RENFANG, Free product with amalgamation and free actions on R -trees	53
JOENTGEN, ARNO and VOLKMAN, LUTZ, Factors of locally almost regular graphs	121
JOHNSON, B. E., Weak amenability of group algebras	281
KAKIMIZU, OSAMU, Doubled knots with infinitely many incompressible spanning surfaces	300
KOMJATH, PETER, Tetrahedron free decomposition of R^3	116
KONDERAK, JERZY J., On natural first order Lagrangians	169
KÖRNER, T. W., Differentiable functions on the rationals	557
LEFEBVRE, DANIELE and POURPRIX, MARIE-THÉRÈSE, Realisations of non v -sufficient jets with value in R^p , $p > 1$	175
LEUNG, C. W. and PLYMEN, R. J., L^2 -Fourier transform for reductive p -adic groups	146
LEUNG, DENNY H., Embedding $\ell^{p,\infty}$ into $L^{p,\infty}[0, 1]$ complementably	583
LEUNG, PUI-FAI, Minimal submanifolds in a sphere II	387
LEWIS, RICHARD, On the rank of partitions modulo 9	417
LUSZTIG, G. and SMELT, J. M., Fixed point varieties on the space of lattices	213
MCCONNELL, J. C., On the primitive spectrum of a solvable enveloping algebra	363
MANN, AVINOAM, Wreath products in modular group rings	443
MARLEY, THOMAS, Unmixed local rings of type two are Cohen-Macaulay	43

MAZUR, B., <i>see</i> Gillet, H.	
MESTEL, B. D., <i>see</i> Berry, D.	
MONTALDI, JAMES, On generic composites of maps	81
MONTAJANO, LUIS, Convex bodies with homothetic sections	381
MORTON, H. R., Trefoil knots without tritangent planes	78
MROZIK, PETER, LC^n compacta are n -improved	391
MUSTONEN, VESA, <i>see</i> Berkovits, Juha	
NÄÄTÄNEN, M. and PENNER, R. C., The convex hull construction for compact surfaces and the Dirichlet polygon	568
NATARAJAN, P. N., A characterization of the matrix class $(\mathcal{C}_\infty, C_0)$	267
NICOLAU, ARTUR, Blaschke products with prescribed radial limits	249
O'CARROLL, L., A note on Artin-Rees numbers	209
O'CARROLL, L., Addendum to: 'A note on Artin-Rees numbers'	555
PARUSIŃSKI, A., Multiplicity of the dual variety	429
PENNER, R. C., <i>see</i> Näätänen, M.	
PERKINS, PATRICK, Isomorphisms of rings of differential operators on curves	133
PIN, JEAN-ERIC and REUTENAUER, CHRISTOPHE, A conjecture on the Hall topology for the free group	356
PLYMEN, R. J., <i>see</i> Leung, C. W.	
POURPRIX, MARIE-THÉRÈSE, <i>see</i> Lefebvre, Danièle	
PRASAD, V. S., <i>see</i> Alpern, Steve	
QUAS, ANTHONY N., On representations of Markov chains by random smooth maps	487
RAKOSNIK, J., <i>see</i> Evans, W. D.	
RANSFORD, T. J. and WHITE, M. C., Holomorphic self-maps of the spectral unit ball	256
REUTENAUER, CHRISTOPHE, <i>see</i> Pin, Jean-Eric	
ROSENMANN, AMNON and ROSSET, SHMUEL, Essential and inessential fractal ideals in the group ring of a free group	437
ROSSET, SHMUEL, <i>see</i> Rosenmann, Amnon	
SAITO, MASAHICO, On closed orbits of Morse-Smale flows on 3-manifolds	482
SCHMINCKE, U. W., Proofs of Povzner-Wienholtz type theorems on self-adjointness of Schrödinger operators by means of positive eigensolutions	263
SCHMUTZ, ERIC, <i>see</i> Goh, William M. Y.	
SCHNEIDER, R., <i>see</i> Groemer, H.	
SHALEV, ANER, Large wreath products in modular group rings	46
SMELT, J. M., <i>see</i> Lusztig, G.	
SOICHER, LEONARD H., A new uniqueness proof for the Held group	235
SOULÉ, C., <i>see</i> Gillet, H.	
STEMBRIDGE, JOHN R., Immanants of totally positive matrices are nonnegative	422
TAKEDA, MASAYOSHI, On the conservativeness of the Brownian motion on a Riemannian manifold	86
TRUSS, J. K., Small sets which meet all the n -term arithmetic progressions in the interval $[1, n^2]$	123
VAN DER VLUGT, MARCEL, A new upper bound for the dimension of trace codes	395
VOLKMANN, LUTZ, <i>see</i> Joentgen, Arno	
WHITE, M. C., Characters on weighted amenable groups	375
WHITE, M. C., <i>see</i> Ransford, T. K.	
WILKINS, D. R., On the length of loops generating holonomy groups	372
WILLEMS, W., On irreducible faithful modules and their cohomology	75
WILSON, J. MICHAEL, A counterexample in two-parameter harmonic analysis	580
WILSON, J. S., Two-generator conditions for residually finite groups	239
YOOD, BERTRAM, On commutativity of unital Banach algebras	278

BOOK REVIEWS

AARTS, E. and KORST, J., Simulated annealing and Boltzmann machines [reviewed by Colin McDiarmid]	622
ACZEL, P., Non-well-founded sets [A. R. D. Mathias]	197
ADÁMEK, J., HERRLICH, H. and STRECKER, G. E., Abstract and concrete categories [M. V. Lawson]	500
ANDRÉ, Y., G -functions and geometry [G. R. Everest]	401
APPEL, K. and HAKEN, W., Every planar map is four colorable [Robin J. Wilson]	89
ARNOLD, V. I., Singularities of caustics and wave fronts [P. J. Giblin]	619
BENEDETTI, R. and RISLER, J.-J., Real algebraic and semi-algebraic sets [C. G. Gibson]	309
BENSOUSSAN, ALAIN, Perturbation methods in optimal control [R. B. Vinter]	616
BROUWER, A. E., COHEN, A. M. and NEUMAIER, A., Distance-regular graphs [N. L. Biggs]	305
CARNIELLI, W. A., <i>see</i> Epstein, R. L.	
COHEN, A. M., <i>see</i> Brouwer, A. E.	

COX, DAVID A., Primes of the form $x^2 + ny^2$ [R. W. K. Odoni]	610
DEUSCHEL, JEAN-DOMINIQUE and STROOCK, DANIEL, Large deviations [E. Bolthausen]	621
DINEEN, S., The Schwarz Lemma [J. M. Anderson]	206
EMERY, M., Stochastic calculus in manifolds [W. S. Kendall]	410
EPSTEIN, R. L. and CARNIELLI, W. A., Computability: computable functions, logic and the foundations of mathematics [R. O. Gandy]	303
ERDŐS, PAUL (<i>editor</i>), Collected papers of Paul Turán [R. C. Vaughan]	193
FALCONER, K. J., Fractal geometry: mathematical foundations and applications [C. Tricot]	207
FENCHEL, W., Elementary geometry in hyperbolic space [E. Rees]	317
FINE, B., Algebraic theory of the Bianchi groups [J. Howie]	199
FOMENKO, A. T., Symplectic geometry [Nigel Hitchin]	408
FREITAG, E. and KIEHL, R., Etale cohomology and the Weil conjecture [G. Horrocks]	200
FREITAG, EBERHARD, Hilbert modular forms [S. J. Patterson]	607
GASPER, G. and RAHMAN, M., Basic hypergeometric series [T. H. Koornwinder]	312
VAN DER GEER, G., <i>see</i> van Lint, J. H.	
GELLER, D., Analytic pseudodifferential operators for the Heisenberg group and local solvability [B. Gaveau]	502
GOODEARL, K. R. and WARFIELD, R. B., An introduction to noncommutative Noetherian rings [C. J. Hajarnavis]	91
GRAHAM, S. W. and KOLESNIK, G., van der Corput's method of exponential sums [D. R. Heath-Brown]	609
GRIPENBERG, G., LONDEN, G.-O. and STAFFANS, O., Volterra integral and functional equations [G. Samuel Jordan]	614
GUNNING, R. C., Introduction to holomorphic functions of several variables. Vol. I: Function theory; Vol. II: Local theory; Vol. III: Homological theory [N. Sibony]	503
GUSFIELD, D. and IRVING, R. W., The stable marriage problem: structure and algorithms [G. Brightwell]	402
HAKEN, W., <i>see</i> Appel, K.	
HASEN, V. L., Braids and coverings: selected topics [Roger Fenn]	104
HERRLICH, H., <i>see</i> Adámek, J.	
HÉRVÉ, M., Analyticity in infinite dimensional spaces [S. Dineen]	314
HILGERT, J., HOFMANN, K. H. and LAWSON, J. D., Lie groups, convex cones and semigroups [D. A. R. Wallace]	203
HOFMANN, K. H., <i>see</i> Hilgert, J.	
HUMPHREYS, J. E., Reflection groups and Coxeter groups [R. W. Carter]	505
IRVING, R. W., <i>see</i> Gusfield, D.	
JAMES, I. M., Introduction to uniform spaces [P. J. Collins]	617
KIEHL, R., <i>see</i> Freitag, E.	
KLEIDMAN, P. and LIEBECK, M., The subgroup structure of the finite classical groups [R. W. Carter]	308
KOLESNIK, G., <i>see</i> Graham, S. W.	
KORST, J., <i>see</i> Aarts, E.	
LAWSON, J. D., <i>see</i> Hilgert, J.	
DE LEÓN, M. and RODRIGUES, P. R., Methods of differential geometry in analytical mechanics [N. M. J. Woodhouse]	105
LIEBECK, M., <i>see</i> Kleidman, P.	
VAN LINT, J. H. and VAN DER GEER, G., Introduction to coding theory and algebraic geometry [J. W. P. Hirschfeld]	498
LONDEN, G.-O., <i>see</i> Gripenberg, G.	
NAG, S., The complex analytic theory of Teichmüller spaces [W. J. Harvey]	405
NAGAO, H. and TSUSHIMA, Y., Representations of finite groups [J. A. Green]	90
NAKAHARA, M., Geometry, topology and physics [David B. Fairlie]	319
NARKIEWICZ, WLADYSŁAW, Elementary and analytic theory of algebraic numbers [R. W. K. Odoni]	610
NEUMAIER, A., <i>see</i> Brouwer, A. E.	
ONISHCHIK, A. L. and VINBERG, E. B., Lie groups and algebraic groups [Andrew N. Pressley]	612
ORLIK, PETER, Introduction to arrangements [Günter M. Ziegler]	101
PINKUS, A., On L^1 -approximation [Dietrich Braess]	97
PISIER, GILLES, The volume of convex bodies and Banach space geometry [Béla Bollobás]	506
POHST, M. and ZASSENHAUS, H., Algorithmic algebraic number theory [J. E. Cremona]	94
PORTER, J. R. and WOODS, R. G., Extensions and absolutes of Hausdorff spaces [P. J. Collins]	98
POUR-EL, M. B. and RICHARDS, J. I., Computability in analysis and physics [R. O. Gandy]	303
RAHMAN, M., <i>see</i> Gasper, G.	
RICHARDS, J. I., <i>see</i> Pour-El, M. B.	
RISLER, J.-J., <i>see</i> Benedetti, R.	
RISSANEN, J., Stochastic complexity in statistical inquiry [A. P. Dawid]	106
RIVLIN, T. J., Chebyshev polynomials [Richard Askey]	311

RODRIGUES, P. R., <i>see</i> de León, M.	
ROTMAN, J., Galois theory [J. C. McConnell]	497
ROWEN, L., Ring theory, Volumes I and II [Aidan Schofield]	93
RUDAKOV, A. N. <i>et al.</i> , Helices and vector bundles (Seminaire Rudakov) [S. Donaldson]	612
SALAMON, S., Riemannian geometry and holonomy groups [John Rawnsley]	407
SCHATTSCHEIDER, DORIS, Visions of symmetry—notebooks, periodic drawings and related work of M. C. Escher [R. L. E. Schwarzenberger]	608
SHARP, R. Y., Steps in commutative algebra [L. O'Carroll]	404
SHIDLOVSKII, A. B., Transcendental number theory [F. Beukers]	99
SNAITH, V. P., Topological methods in Galois representation theory [M. J. Taylor]	307
STAFFANS, O., <i>see</i> Gripenberg, G.	
STRECKER, G. E., <i>see</i> Adámek, J.	
STROOCK, DANIEL, <i>see</i> Deuschel, Jean-Dominique	
TOTH, G., Harmonic maps and minimal immersions through representation theory [P. Baird]	509
TSUSHIMA, Y., <i>see</i> Nagao, H.	
VARADARAJAN, V. S., An introduction to harmonic analysis on semi-simple Lie groups [T. Hirai]	204
VAUGHAN-LEE, M., The restricted Burnside problem [J. Wiegold]	201
VINBERG, E. B., <i>see</i> Onishchik, A. L.	
WARD, R. S. and WELLS, R. O., Jr, Twistor geometry and field theory [N. J. Hitchin]	315
WARFIELD, R. B., <i>see</i> Goodearl, K. R.	
WELLS, R. O., JR, <i>see</i> Ward, R. S.	
WOODS, R. G., <i>see</i> Porter, J. R.	
ZASSENHAUS, H., <i>see</i> Pohst, M.	
ZIEMER, W. P., Weakly differentiable functions [D. Preiss]	314

RECORDS OF PROCEEDINGS AT MEETINGS

GENERAL AND ORDINARY MEETING, 15 June 1990	109
ORDINARY MEETING, 24 August 1990	414
MEETING ON INTEGRABLE NONLINEAR SYSTEMS, 19 October 1990	414
GENERAL AND ORDINARY MEETING, 19 October 1990	414
ANNUAL GENERAL MEETING, 16 November 1990	415
ORDINARY MEETING, 18 January 1991	512
ORDINARY MEETING, 15 February 1991	512
ORDINARY MEETING, 15 March 1991	624

